DOCUMENT RESUME

ED 239 929 SE 044 145

AUTHOR Herrick, Margery
TITLE Mathematical Thought Problems: "Primary Grades."
INSTITUTION Area Education Agency 7, Cedar Falls, IA.
PUB DATE [80]
NOTE 89p.
PUB TYPE Guides - Classroom Use - Guides (For Teachers) (052)

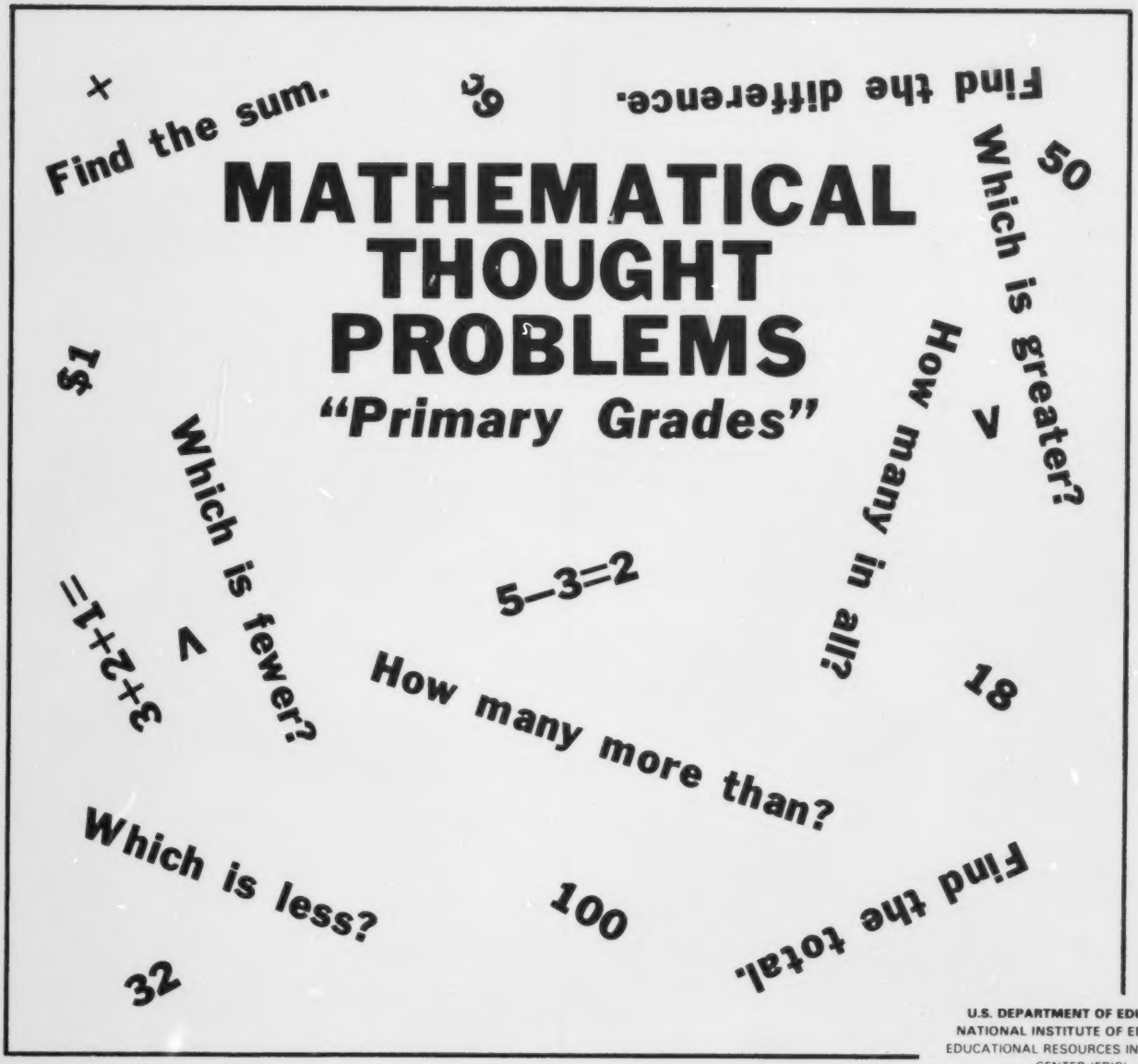
EDRS PRICE MF01/PC04 Plus Postage.
DESCRIPTORS Addition; *Arithmetic; Educational Games; *Enrichment Activities; Instructional Materials; Learning Activities; *Mathematical Enrichment; *Mathematics Instruction; Primary Education; Problem Sets; Subtraction
IDENTIFIERS PF Project; *Word Problems (Mathematics)

ABSTRACT

Twenty-seven supplemental lessons for primary students involving mathematical thought problems on addition, subtraction, and comparison (e.g., greater than and less than) are presented. Each of the lessons contains 10 or more problems which students either hear or read and then respond to either orally or on written answer sheets. The materials in this booklet are grouped in four sections: (1) 27 word problem cards (one for each lesson); (2) student answer sheets for those lessons requiring written answers; (3) transparency masters for presenting the questions for several of the lessons; and (4) instructions and materials for three games which can be used with some of the lessons. This document is part of a collection of materials from the Iowa Area Education Agency 7 Teacher Center project. (DC)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED239929



U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

☑ This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official NIE position or policy.

SE044145

Developed By:

Margery Herrick
Classroom Teacher
Devonshire Elementary
Waterloo, Iowa

Sponsored By:

The Teacher Center
Nellie Garvey School
2201 E. Mitchell Ave.
Waterloo, Iowa 50702

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

Ronald Dickinson

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

Cedar Falls, Iowa

Document title: Mathematical Thought Problems: "Primary Grades".

Author(s): Margery Herrick

Developed with funds provided by a federal Teacher Center grant contract under the provisions of the Higher Education Act of 1965.

AEA 7 Teacher Center
Waterloo, Iowa
Sept. 15, 1978 to Aug. 15, 1983

Teacher Center Policy Board Chair - Doris Mauer
Teacher Center Director - Diane Gibson, Ed. D.

Ronald Dickinson, Ed. D.- Chief Administrator, AEA 7

Introduction

There is a strong need for developing mathematical thought problems for the last half of primary one and the beginning of primary two. The math programs used in Area 7 need supplementing in this skill. This set of 27 mathematical thought problem lessons were developed with an emphasis on these concepts:

A. Addition

1. Find the sum
2. How many in all?
3. How many altogether?
4. Find the total
5. 5 added to 2
6. 7 plus 1

B. Subtraction

1. Find the difference
2. How many more than?
3. How many more are needed?
4. How many are left?
5. How many fewer?
6. 5 subtract 1
7. 3 minus 2

C. Comparison Vocabulary

1. Which is greater?
2. Which is fewer?
3. Which number is between x and x?
4. Which is less?

The materials in this booklet are grouped as follows:

Section I: Word Problem Cards
Section II: Student Answer Sheets
Section III: Transparencies
Section IV: Supplementary Games, Worksheets/Transparencies

SECTION I:

WORD PROBLEM CARDS

LESSON 1

Objective: For the student to listen to the problem read orally, with no visual stimulus, and give correct response.

Directions: a. Explain Around the World (Section IV, Activity 1)
b. Read each item once.

1. What is 2 plus 5?
2. What is 9 plus 1?
3. What is 5 plus 0?
4. What is 2 plus 4?
5. What is 3 plus 5?
6. What is 4 plus 4?
7. What is 3 plus 6?
8. What is 4 plus 7?
9. What is 2 plus 8?
10. What is 3 plus 9?
11. What is 1 plus 8?
12. What is 2 plus 7?
13. What is 4 plus 6?
14. What is 3 plus 5?
15. What is 5 plus 5?
16. What is 6 plus 6?
17. What is 5 plus 4?
18. What is 3 plus 4?
19. What is 3 plus 3?
20. What is 2 plus 2?
21. What is 2 plus 5?
22. What is 1 plus 7?
23. What is 2 plus 8?
24. What is 8 plus 3?
25. What is 2 plus 3?
26. What is 2 plus 4?
27. What is 4 plus 3?
28. What is 3 plus 2?
29. What is 6 plus 2?
30. What is 7 plus 3?
31. What is 1 plus 2?
32. What is 7 plus 2?
33. What is 1 plus 3?
34. What is 6 plus 3?
35. What is 9 plus 3?

LESSON 2

OBJECTIVE: The student will listen to the problem read orally by the teacher and respond orally to the question.

1. What is 2 added to 1?
2. What is 1 added to 3?
3. What is 2 added to 0?
4. What is 1 added to 2?
5. What is 2 added to 3?
6. What is 2 added to 2?
7. What is 4 added to 0?
8. What is 1 added to 4?
9. What is 3 added to 3?
10. What is 2 added to 4?
11. What is 1 added to 5?
12. What is 2 added to 6?
13. What is 3 added to 8?
14. What is 2 added to 7?
15. What is 9 added to 2?

Answer Sheet #2 may be used to have students record their answers.

LESSON 3

Objective: The student will listen to the problem read orally by the teacher and record their answers on answer sheet #3.

1. What is 2 added to 5?
2. What is 3 added to 6?
3. What is 4 added to 7?
4. What is 1 added to 4?
5. What is 3 added to 2?
6. What is 4 added to 2?
7. What is 5 added to 4?
8. What is 6 added to 5?
9. What is 2 added to 4?
10. What is 3 added to 5?
11. That is 4 added to 6?
12. What is 3 added to 3?
13. What is 5 added to 5?
14. What is 6 added to 6?
15. What is 4 added to 5?

LESSON 4

DIRECTIONS: Read orally once. Have children answer orally or mark correct number on answer sheet #4.

1. What is 5 subtract 2? Five minus 2 equals what number?
2. What is 4 subtract 2? Four minus 2 equals what number?
3. What is 3 subtract 1? Three minus 1 equals what number?
4. What is 6 subtract 3? Six minus 3 equals what number?
5. What is 3 subtract 0? Three minus 0 equals what number?
6. What is 6 subtract 4? Six minus 4 equals what number?
7. What is 5 subtract 4? Five minus 4 equals what number?
8. What is 6 subtract 2? Six minus 2 equals what number?
9. What is 5 subtract 3? Five minus 3 equals what number?
10. What is 7 subtract 2? Seven minus 2 equals what number?
11. What is 5 subtract 1? Five minus 1 equals what number?
12. What is 7 subtract 5? Seven minus 5 equals what number?

LESSON 5

DIRECTIONS: Read only once. May be used to play King on the Mountain (Section IV, Activity 2)

1. What is 2 added to 3?
2. What is 1 added to 4?
3. What is 6 added to 0?
4. What is 3 added to 2?
5. What is 2 added to 5?
6. What is 4 added to 2?
7. What is 6 added to 6?
8. What is 5 added to 4?
9. What is 3 added to 5?
10. What is 2 added to 7?
11. What is 3 added to 3?
12. What is 2 added to 9?
13. What is 4 added to 3?
14. What is 1 added to 6?
15. What is 7 added to 1?
16. What is 3 added to 6?
17. What is 2 added to 2?
18. What is 4 added to 4?
19. What is 7 added to 7?
20. What is 9 added to 0?

LESSON 6

DIRECTIONS: a. Read question and have students mark correct answer on answer sheet #6.
b. Read question and play Midget Step May I?(Section IV, Activity 3)

1. What is one greater than twelve?
2. What is the number between 12 and 14?
3. What is one greater than 22?
4. What is the number between 26 and 28?
5. What number is one greater than 37?
6. What number is between 32 and 34?
7. What number is one greater than 36?
8. What number is between 39 and 41?
9. What number is one greater than 43?
10. What number is between 46 and 48?
11. What number is one greater than 49?
12. What number is between 5o and 52?
13. What number is one greater than 54?
14. What number is between 56 and 58?
15. What number is one greater than 59?
16. What number is between 61 and 63?
17. What number is one greater than 64?
18. What number is between 66 and 68?
19. What number is one greater than 69?
20. What number is between 71 and 73?
21. What number is one greater than 77?
22. What number is between 78 and 80?

LESSON 7

DIRECTIONS: Read these problems and have the children give correct answer orally.

1. Shelly had seven erasers. Todd had two erasers. Shelly had how many more erasers than Todd?
2. Julie had six pieces of puzzle. Amy had three pieces of the puzzle. How many more pieces did Julie have than Amy?
3. Marian had three pencils. Frank had one pencil. How many more pencils did Marian have than Frank?
4. Dalen had four books. Tome had two books. How many more books did Dalen have than Tom?
5. Kathy had six cars. David had three cars. Kathy had how many more cars than David?
6. Tammie had five apples. Chris had three apples. Tammie had how many more apples than Chris?
7. Kale had ten horses. Susan had four horses. How many more horses did Kale have than Susan?
8. Jennifer had nine oranges. Melinda had four oranges. How many more oranges did Jennifer have than Melinda?
9. Matt had eight cows. Jeff had four cows. How many more cows did Matt have than Jeff?
10. Ryan had seven sticks. Jason had three sticks. How many more sticks did Ryan have than Jason?

LESSON 8

DIRECTIONS: Read orally once. Use game King of the Mountain (Section IV, Activity 2).

1. What is one fewer than 16?
2. What is one fewer than 22?
3. What is one fewer than 8?
4. What is one fewer than 33?
5. What is one fewer than 42?
6. What is one fewer than 55?
7. What is one fewer than 69?
8. What is one fewer than 78?
9. What is one fewer than 87?
10. What is one fewer than 100?

LESSON 9

DIRECTIONS: Read orally once. Use game King of the Mountain (section IV, Activity 2)

1. What is one more than 23?
2. What is one more than 17?
3. What is one more than 9?
4. What is one more than 34?
5. What is one more than 46?
6. What is one more than 57?
7. What is one more than 79?
8. What is one more than 98?
9. What is one more than 65?
10. What is one more than 80?

LESSON 10

DIRECTIONS: Read questions orally and have children respond orally. Use Midget Step May I.

1. What is one less than 13?
2. What is the number between 13 and 15?
3. What is one less than 23?
4. What number is between 24 and 26?
5. What number is one less than 36?
6. What number is between 40 and 42?
7. What number is one less than 35?
8. What number is between 31 and 33?
9. What number is one less than 44?
10. What number is between 48 and 50?
11. What number is one less than 47?
12. What number is between 53 and 55?
13. What number is one less than 52?
14. What number is between 64 and 66?
15. What number is between 79 and 81?
16. What number is one less than 99?

LESSON 11

DIRECTIONS: Read each problem and allow time to answer sheet #11.

OBJECTIVE: This process will get the children ready for a three step math process. First they must listen for the problem, then decide the process. Second they must think the answer in their heads or on scratch paper, and third, they must record the answer on the answer sheet.

1. Fill in the circle that is one less than 12.
2. Fill in the circle that is less than 23.
3. Fill in the circle under the name for 1 ten and 7 ones.
4. Tom was counting by 3's. What did he say after 12?
5. What is the number between 13 and 15?
6. Susan is the 4th oldest child in the class. How many children are older than Susan?
7. How many tens are there in 30?
8. Which numeral is nearest in value to 98? Fill in the circle.
9. Fill in the circle under the sign that tells you to subtract.
10. Which numeral names a number between 40 and 60? Fill in the circle.

LESSON 12

DIRECTIONS: Read each problem orally and allow time for students to mark answer sheet #12.

1. Sally has 2 sisters and 3 brothers. How many sisters and brothers does Sally have?
2. Jim had spent 5¢ for a pencil, 10¢ for paper, and 5¢ for paste. How much did he spend altogether?
3. Susan had 3 paper dolls. Joan had twice as many paper dolls. How many paper dolls did Jean have?
4. Nancy earns 5¢ each time she makes the bed. How many times must she make the bed to earn 25¢?
5. Sue earns 10¢ every time she picks up paper. How many times must she pick up paper to earn 30¢?
6. Tim had 4 toy tractors. Donnie had twice as many tractors. HOw many tractors did Donnie have?
7. Tom earns 5¢ each time he puts the garbage out. How many times must he put the garbage out to earn 20¢?
8. It took Mary 10 minutes to walk one-half the way to school. At this rate, how many minutes would it take her to walk all the way to school?
9. It took Lee 5 minutes to walk one-half the way to school. At this rate, how many minutes would it take him to walk all the way to school?
10. Sid had 6 toys. Sean had twice as many toys. How many toys did Sean have?

LESSON 13

DIRECTIONS: Read questions orally and allow time for students to mark answer sheet #13.

1. Susan had three papers. Tom had twice as many. How many papers does Tom have?
2. It took Bill 3 minutes to do half his math. How many times will it take him to do all his math?
3. Ben wanted 4 pencils. Each pencil costs 5¢. How much money would Ben need to buy 4 pencils?
4. Jean gets 5¢ each time she makes her bed. How many times will she make her bed to earn 25¢.
5. Joshua took 5 minutes to walk half way to school. How many minutes would it take him to walk all the way to school?
6. Tom's mother bought 6 oranges. Tom ate two oranges. How many oranges are left?
7. Wendy had ten papers. Michelle had 5 papers. How many more papers did Wendy have than Michelle?
8. Day went to the store. He bought some cars. He gave 3 cars to Susan, 2 cars to Jenny, and 1 car to Kale. He didn't have any left. How many did he buy in all?
9. Mother went to the store and bought apples. David ate 3. There were still 5 apples left. How many apples did Mother buy?

LESSON 14

DIRECTIONS: Read each question orally once and have students mark answer sheet #14.

1. What is greater than 12?
2. Fill in the oval that is one less than 46.
3. Fill in the oval for 7 tens and two ones.
4. Ron was counting by 2's. What did he say after 14?
5. What is the number bewteen 12 and 14?
6. Ben is the third oldest child in the class. How many children are older than Ben?
7. How many tens are there in 20?
8. Which number is nearest in value to 35?
9. Fill in the sign that tells you the numbers are =.
10. Which numeral names the number between 70 and 100?

LESSON 15

DIRECTIONS: Read each problem and allow time for students to mark answer sheet #15.

1. Tom had seven cookies. He ate 3. How many were left?
2. Sally had 9 paper dolls. She tore 3 of them. How many were left?
3. James had 8 tractors. He gave 3 tractors to Chris. How many were left?
4. Lee had 5 pieces of paper. He gave 3 to Rhonda. How many were left?
5. Jane had 3 turtles. The 3 turtles swam away. How many were left?
6. Jack caught 6 fish. He gave 3 to his grandmother. How many were left?
7. There were 4 deer in the field. Three deer ran away. How many were left?
8. There were 9 robins in the backyard. Three robins flew away. How many were left?
9. Nan had 8 flowers. She gave 4 to Jenny. How many were left?
10. Paul had 8 pictures in this camera. He took five pictures. How many were left?

LESSON 16

DIRECTIONS: Read each problem and allow time for the students to mark answer sheet #16.

1. Jane had 9 papers. She wants 12 papers. How many more papers are needed?
2. Sean has 5 strings. He needs 10 strings. How many more strings are needed?
3. Melinda has 5 cookies. She has 8 friends. She needs a cookie for each friend. How many more cookies are needed?
4. There are 9 children. There are 4 balls. Each child needs a ball. How many more balls are needed?
5. The teacher has 7 desks. She has 3 chairs. She needs a chair for each desk. How many more chairs does the teacher need?
6. Ted has 4 kites. He has tails for 2 kites. He needs a tail for each kite. How many more tails does he need?
7. Leslie has 5 packs of cards. He needs rubber bands for each pack. He has 3 rubber bands. How many more rubber bands does he need?
8. It takes 4 children to play Candyland. There are two children here. How many more children will we need?
9. It takes 2 children to teeter-totter. There is one child here. How many more children will we need?
10. There are 7 children. There are 4 pencils. Each child needs a pencil. How many more pencils will we need?

LESSON 17

DIRECTIONS: Read each problem. Have the child write the problem and the answer on answer sheet #17.

1. Jean had five games. Tom had 6 games. Find the total.
2. Larry had 4 wagons. James had 6 wagons. Find the total.
3. Sally had 6 drums. Dick had 2 drums. Find the total.
4. Bill had 6 spoons. Betty had 6 spoons. Find the total.
5. Lois had 3 plates. June had 6 plates. Find the total.
6. Bill had 1 turtle. Jill had 6 tuttles. Find the total.
7. Mandy had 5 cars. Danny had 5 cars. Find the total
8. Julie had 2 toy ponies. Mike had 5 toy ponies. Find the total.
9. Melinda had 5 chairs. Kale had 3 chairs. Find the total.
10. Jennifer had 4 candy bars. Todd had 5 candy bars. Find the total.

LESSON 18

DIRECTIONS: Read each problem and color in the correct answer on answer sheet # 18.

1. Matthew had 11 cars. Ann had 6 cars. Find the difference.
2. Amy had 12 cars. Ryan had 5 cars. Find the difference.
3. Sally had 10 pieces of paper. Jim had 5 pieces of paper. Find the difference.
4. Julie had 9 pairs of scissors. Jeff had 6 pairs of scissors. Kind the difference.
5. Susan had 10¢. Donnie had 6¢. Find the difference.
6. Mary took 10 minutes to walk to school. Lee took 4 minutes to walk to school. Find the difference.
7. Sean had 9 pieces of cake. Leigh had 4 pieces of cake. Find the difference.
8. Sally rode 8 miles on the bus. Tom rode 5 miles on the bus. Find the difference.
9. Sid knocked down 8 bowling pins. Cecile knocked down 6. Find the difference.
10. Jan hit the basket 9 times. Jack hit the basket 3 times. Find the difference.

LESSON 19

DIRECTIONS: Read each problem. Have the child color in the correct answer on answer sheet #19.

1. Donny needs 2 erasers. Each eraser costs 3¢. How much would 2 erasers cost?
2. Shelly needs 2 books. Each book costs 5¢. How much would 2 books cost?
3. Dalen needs 2 pencils. Each pencil costs 4¢. How much would 2 pencils cost?
4. Jennifer wanted 2 cookies. Each cookie cost 6¢. How much would 2 cookies cost?
5. Matthew wanted 2 oranges. Each orange cost 7¢. How much would 2 oranges cost?
6. Julie wanted 2 sticks of gum. Each stick of gum cost 1¢. How much would 2 sticks of gum cost?
7. Kathy wanted 2 cars. Each car cost 5¢. How much would 2 cars cost?
8. Tammie wanted 2 apples. Each apple cost 10¢. How much would 2 apples cost?
9. Kale wanted 2 tootsie rolls. Each tootsie roll cost 5¢. How much would 2 tootsie rolls cost?
10. Matthew wanted 2 wagons. Each wagon cost $1. How much would 2 wagons cost?

LESSON 20

DIRECTIONS: Read each problem and have the students write the number story and answer on answer sheet #20.

1. Dalen had 2 yellow pencils. Michelle had 3 red pencils. Find the sum.
2. Kathy had 6 red pencils and 1 yellow pencil. Find the sum.
3. Michelle had 7 small books and 2 big books. Find the sum.
4. Tammie had 2 short sticks. Melinda had 6 long sticks. Find the sum.
5. David had five green cars and four blue cars. Find the sum.
6. Chris had 2 small tractors and 2 large tractors. Find the sum.
7. Matthew had 5 blue papers and 3 red papers. Find the sum.
8. Jeff had 2 rolls of red ribbons and 3 rolls of blue ribbons. Find the sum.
9. Jack had 4 blue cars and 3 yellow cars. Find the sum.
10. Todd had 2 red lights and 3 blue lights. Find the sum.

LESSON 21

DIRECTIONS: Read the math problem orally to students. Have the student color in the correct answer on answer sheet #21.

1. Tom was counting by 2's. What did he say after 14?
2. David was counting by 10's. Waht did he say after 20?
3. Chris was counting by 5's. What did she say after 25?
4. Donny was counting by 3's. What did he say after 9?
5. Matthew was counting by 1's. What did he say after 97?
6. Kale was counting by 2's What did he say after 26?
7. Jeff was counting by 10's. What did he say after 70?
8. David was counting by 5's. What did he say after 40?
9. Joshua was counting by 1's. What did he say after 67?
10. Donnie was counting by 3's. What did he say after 21?
11. Todd was counting by 10's. What did he say after 50?
12. Ryan was counting by 2's. What did he say after 38?
13. Jason was counting by 5's What did he say after 95?
14. Tom was counting by 1's What did he say after 23?

LESSON 22

DIRECTIONS: Read the problems orally and have the students write the problem and answer on sheet #22.

1. Dalen had 3 dolls. Mindy had 3 dolls. Find the total number of dolls that Mindy and Dalen had together.
2. Kathy had 2 pencils. Susan had 4 pencils. Find the total number of pencils that Kathy and Susan had together.
3. Michelle had six books. Jenny had three books. Find the total number of books Michelle and Jenny had together.
4. Stephanie had 4 oranges. Susan had 4 oranges. Find the total number of oranges that Stephanie and Susan had together.
5. Tammie had two erasers. Ronna had two erasers. Find the total number of erasers Tammie and Ronna had together.
6. Melinda had five apples. Jennifer had two apples. Find the total number of apples that Melinda and Jennifer had together.
7. David have five cars. Jennifer had one car. Find the total number of cars that David and Jennifer had together.
8. Chris had two tractors. Donny had three tractors. Find the total number of tractors that Chris and Donny had together.
9. Matthew had five papers. Kale had three papers. Find the total number of papers that Matthew and Kale had together.
10. Jeff had six pieces of candy. Todd had two pieces of candy. Find the total number of pieces of candy that Jeff and Todd had together.

LESSON 23

DIRECTIONS: Read the problems orally and have the students write the problem and the answer on answer sheet #23.

1. Kale bought a car for 3¢ and a balloon for 2¢. How much did he spend in all?
2. Susan had three pencils. Wendy had one pencil. How many pencils did they have in all?
3. David had five books. His father gave him two books. How many books did he have in all?
4. Kathy had two apples. Michelle gave her two apples. How many apples did Kathy have in all?
5. Jeff had two cars. Todd had one car. How many cars did they have in all?
6. Dalen had 4 colors. Shelly gave her a blue crayon and a green crayon. How many did Dalen have in all?
7. Mother went to the store and bought four apples. She had one apple at home. How many apples did she have in all?
8. Chris had three pieces of paper. Donnie gave him three pieces of paper. How many pieces of paper did Chris have in all?
9. Donny had two tractors. His brother gave him three tractors. How many did Donny have in all?
10. Jennifer had five pennies. Her grandmother gave her a nickel. How much money did Jennifer have in all?

LESSON 24

DIRECTIONS: Read the problems orally to the students and have them mark the correct answer on ans. sheet #24.

1. Sharon had 6 sheets of art paper. She used all but 3 of the sheets. How many sheets of art paper did Sharon use?
2. Lois needed 5 pennies to pay for a pencil. She only had 2 pennies. How many more pennies did she need?
3. Jean had 3 pennies. Lois gave her 3 more pennies. How many pennies did Jean have then?
4. Jeff had 5 pennies. He lost 3 of them. How many pennies did Jeff have left?
5. June had 3 red papers and 4 yellow papers. How many papers of these two colors did June have?
6. Kim had 6 tractors. He gave 3 to his little brother. How many tractors did Kim have left?
7. Steve had 4 oars. Keith had twice as many cars. How many cars did Keith have?
8. It took Kale 10 minutes to do one-half of his math. At this rate, how many minutes would it take Kale to do his math?
9. It took Sid 5 minutes to do one-half of his reading. At this rate, how many minutes would it take him to do his reading?
10. Jill bought a cookie for 4¢, a lollipop for 2¢, and a piece of candy for 1¢. How many cents did Jill spend?

LESSON 25

DIRECTIONS: Read the directions orally and have students record the correct answer or play Kind of the Mountain.

1. 9 subtract 3
2. 9 subtract 4
3. 9 subtract 7
4. 9 subtract 6
5. 9 subtract 2
6. 9 subtract 8
7. 9 subtract 9
8. 9 subtract 1
9. 9 subtract 1
10. 9 subtract 0
11. 8 subtract 3
12. 8 subtract 5
13. 8 subtract 8
14. 8 subtract 6
15. 8 subtract 4
16. 8 subtract 2
17. 8 subtract 0
18. 8 subtract 7
19. 8 subtract 1
20. 8 subtract 7

LESSON 26

DIRECTIONS: Read the directions orally and have students record the correct answer or play Midget Step.

1. 7 subtract 6
2. 7 subtract 2
3. 7 subtract 4
4. 7 subtract 3
5. 7 subtract 5
6. 7 subtract 0
7. 7 subtract 1
8. 6 subtract 5
9. 6 subtract 0
10. 6 subtract 2
11. 6 subtract 3
12. 6 subtract 4
13. 6 subtract 1
14. 6 subtract 6
15. 5 subtract 5
16. 5 subtract 1
17. 5 subtract 3
18. 5 subtract 4
19. 5 subtract 2
20. 5 subtract 0

LESSON 27

DIRECTIONS: Read the problems orally and have the students write the problem and the answer.

1. Sherri has 7 papers. Jenny has 10 papers. How many fewer papers does Sherri have?
2. Kale has 4 pairs of scissors. Ryan has 10 pairs of scissors. How many fewer does Kale have?
3. Chris has 6 marbles. Ken has 10 marbles. How many fewer marbles does Chris have?
4. Jane has 3 new dresses. She has 10 new ribbons. How many fewer dresses than ribbons does Jane have?
5. Ann has 5 books. Michelle has 10 books. How many fewer books does Ann have?
6. Leon has 2 pencils. Joshua has 10 pencils. How many fewer pencils does Leon have?
7. Mary has 8 erasers. Mark has 10 erasers. How many fewer erasers does Mary have?
8. Candy has 1 piece of chalk. Jerry has 10 pieces of chalk. How many fewer pieces of chalk does Candy have?
9. Edna has 9 pieces of candy. Larry has 10 pieces of candy. How many fewer pieces of candy does Edna have?
10. George has 10 soldiers. Laura has 10 soldiers. How many fewer soldiers does George have?

SECTION II:

STUDENT ANSWER SHEETS

ANSWER SHEET #2

NAME_____

1.	2	3	4
2.	1	3	4
3.	0	2	4
4.	1	2	3
5.	2	5	3
6.	2	4	6
7.	0	4	5
8.	4	5	6
9.	3	6	9
10.	4	6	8
11.	5	6	7
12.	4	6	8
13.	3	8	11
14.	7	8	9
15.	10	11	12

ANSWER SHEET #3

NAME_____

1.	2	7	9
2.	3	6	9
3.	7	11	13
4.	5	6	7
5.	4	5	6
6.	5	6	7
7.	4	9	14
8.	6	9	11
9.	2	6	4
10.	9	8	7
11.	12	11	10
12.	5	6	8
13.	8	9	10
14.	12	6	0
15.	4	7	9

ANSWER SHEET #4

Name_____

1.	7 - 5	5 - 2	5 + 2
	○	○	○
2.	2 + 4	4 - 2	2 + 2
	○	○	○
3.	3 - 1	3 + 1	3 - 0
	○	○	○
4.	6 + 3	6 - 3	9 - 3
	○	○	○
5.	3 + 0	0 + 0	3 - 0
	○	○	○
6.	6 - 2	6 - 4	6 + 4
	○	○	○
7.	5 - 1	5 + 4	5 - 4
	○	○	○
8.	3 + 3	6 - 3	6 + 3
	○	○	○
9.	5 - 3	5 + 3	8 - 3
	○	○	○
10.	7 - 5	7 - 2	2 + 5
	○	○	○
11.	4 - 1	5 - 1	6 - 1
	○	○	○
12.	2 + 5	7 + 5	7 - 5
	○	○	○

ANSWER SHEET #6

Name_____

1.	11	12	13
2.	12	13	14
3.	23	24	25
4.	26	27	28
5.	36	37	38
6.	31	32	33
7.	35	36	37
8.	40	41	42
9.	42	43	44
10.	47	48	49
11.	48	50	52
12.	49	50	51
13.	52	54	55
14.	55	57	59
15.	58	60	62
16.	59	61	62
17.	63	64	65
18.	67	68	69
19.	69	70	71
20.	72	73	74
21.	77	78	79
22.	78	79	80

ANSWER SHEET #11

Name_____

1.	10	11	12
	O	O	O
2.	22	23	24
	O	O	O
3.	71	17	7
	O	O	O
4.	13	15	18
	O	O	O
5.	14	15	16
	O	O	O
6.	2	3	4
	O	O	O
7.	2	3	10
	O	O	O
8.	50	62	88
	O	O	O
9.	=	-	+
	O	O	O
10.	52	31	92
	O	O	O

ANSWER SHEET #12

Name_____

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

ANSWER SHEET #13

Name_____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

ANSWER SHEET #14

Name_____

1.	12	13	14
2.	44	45	46
3.	27	9	72
4.	16	18	20
5.	11	13	15
6.	1	2	3
7.	0	3	2
8.	32	53	85
9.	-	+	=
10.	27	75	110

ANSWER SHEET #15

Name_____

1.	4	7	10
2.	3	6	9
3.	5	8	11
4.	5	3	2
5.	0	3	6
6.	9	6	3
7.	4+3=7	7-3=4	4-3=1
8.	9-3=6	3+6=9	9-6=3
9.	8-4=4	8+4=12	4+4=8
10	8+5=13	8-5=3	5+3=8

ANSWER SHEET #16

Name_____

1.	3	6	9
2.	5	10	15
3.	5	3	8
4.	4	5	9
5.	4	5	6
6.	6	2	4
7.	2	3	5
8.	6	4	2
9.	0	1	2
10.	2	3	4

ANSWER SHEET #17

Name_____

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

ANSWER SHEET #18

Name_____

1.	11 - 5	11 - 6	11 + 6
2.	12 - 5	12 + 5	12 - 7
3.	10 + 5	10 - 5	5 + 5
4.	9 - 6	9 + 6	9 - 3
5.	16	4	10
6.	6	10	4
7.	4	5	8
8.	3	5	8
9.	8 - 6	8 + 6	8 - 2
10.	12 - 9	9 - 3	9 + 3

ANSWER SHEET #19

NAME_____

1.	3¢	6¢	9¢
2.	2¢	5¢	10¢
3.	4¢	8¢	10¢
4.	8¢	10¢	12¢
5.	2¢	7¢	14¢
6.	2¢	4¢	5¢
7.	7¢	3¢	10¢
8.	10¢	20¢	30¢
9.	2¢	4¢	10¢
10.	$2	$3	$5

ANSWER SHEET #20

NAME_____

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

ANSWER SHEET #20

Name_____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

ANSWER SHEET #21

Name_____

1.	14	16	18
2.	10	20	10
3.	30	45	50
4.	12	3	15
5.	96	98	100
6.	24	26	28
7.	60	80	100
8.	45	55	65
9.	66	68	70
10.	20	21	22
11.	55	60	40
12.	36	37	40
13.	90	100	105
14.	24	26	27

ANSWER SHEET #22

NAME_____

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

ANSWER SHEET #23

NAME_____

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

ANSWER SHEET #24

NAME_____

1. $6+3=9$ $6-3=3$ $9-3=6$

2. $5-2=3$ $5+2=7$ $7-2=5$

3. $3-3=0$ $6-3=3$ $3+3=6$

4. $5-3=2$ $5+3=8$ $5-2=3$

5. $7-3=4$ $3+4=7$ $7+3=10$

6. 3 6 9

7. 4 6 8

8. 10 10 40

9. 10 20 30

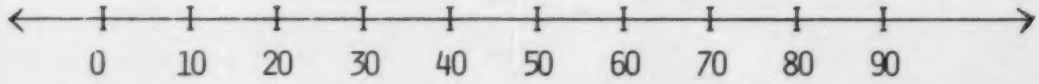
10. 6¢ 7¢ 8¢

SECTION III:

TRANSPARANCIES

TRANSPARENCY 1 Lessons 1 and 6

1. What is one more than 14? _____
2. What is one more than 30? _____
3. What is one more than 36? _____
4. What is one more than 47? _____
5. What is one more than 73? _____
6. What is one more than 69? _____
7. What is one more than 55? _____
8. What is one more than 98? _____
9. What is one more than 87? _____
10. What is one more than 9? _____
11. What is one more than 22? _____
12. what is one more than 64? _____
13. What is one more than 76? _____
14. What is one more than 93? _____
15. What is one more than 61? _____
16. What is one more than 45? _____
17. What is one more than 17? _____
18. What is one more than 25? _____



Which number is less?

1. 60 90	2. 40 80	3. 100 90
4. 10 20	5. 70 50	6. 100 30
7. 40 60	8. 50 20	9. 70 80
10. 30 10	11. 40 30	12. 50 80
13. 60 30	14. 80 90	15. 40 70

Which number is greater?

1. 90 70	2. 100 40	3. 20 60
4. 90 30	5. 80 70	6. 100 10
7. 50 40	8. 20 70	9. 30 80
10. 50 90	11. 60 80	12. 40 10
13. 50 60	14. 80 100	13. 20 30

WHICH NUMBER IS GREATER?

1. 20 30	2. 90 60	3. 40 80	4. 100 90	5. 100 30
6. 70 50	7. 10 20	8. 70 80	9. 50 80	10. 40 30
11. 30 10	12. 40 70	13. 80 90	14. 60 30	15. 60 50

WHICH NUMBER IS FEWER?

1. 90 70	2. 40 100	3. 60 20	4. 90 30	5. 10 100
6. 70 80	7. 30 80	8. 70 20	9. 40 50	10. 40 10
11. 60 80	12. 59 80	13. 60 50	14. 80 100	15. 20 30

TRANSPARENCY 4 Lessons 8 and 10

1. What is one less than 13? _____
2. What is one less than 29? _____
3. What is one less than 35? _____
4. What is one less than 46? _____
5. What is one less than 72? _____
6. What is one less than 68? _____
7. What is one less than 54? _____
8. What is one less than 99? _____
9. What is one less than 87? _____
10. What is one less than 8? _____
11. What is one less than 21? _____
12. What is one less than 63? _____
13. What is one less than 75? _____
14. What is one less than 92? _____
15. What is one less than 60? _____
16. What is one less than 44? _____
17. What is one less than 17? _____
18. What is one less than 24? _____

1. Bill has 2 airplanes. Jill has 3 airplanes. How many airplanes are in all?

2. Ben has 6 turtles. Ted has 2 turtles. How many turtles are in all?

3. Nan had 4 dolls. Jill had 3 dolls. How many dolls in all?

4. Ted had 5 bats. Bill had 3 bats. How many cars in all?

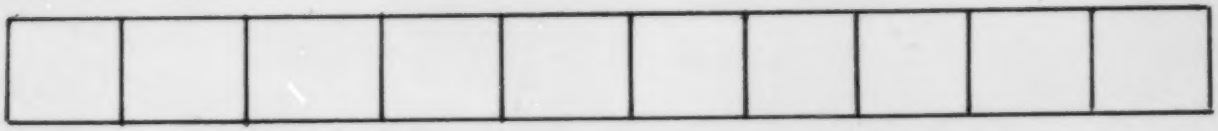
5. Bill had 4 cars. Ben had 5 cars. How many cars in all?

6. There are 4 boys. There are 2 girls. How many children in all?

7. There are 5 seals. There are 2 elephants. How many animals in all?

COUNTING BY 10's.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



TRANSPARENCY 7 Counting By 5's Lesson 21

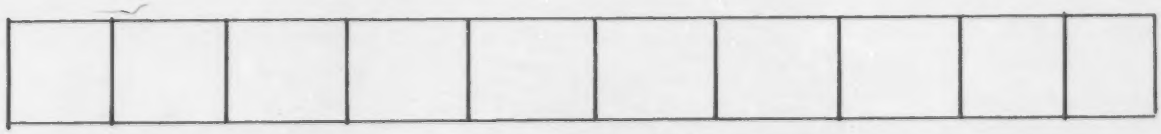
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

TRANSPARENCY 8 Counting By 2's Lesson 21

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	45	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

COUNTING BY 3'S.

1	2	(3)	4	5	(6)	7	8	(9)	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



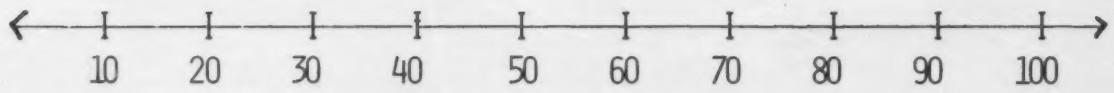
WHEN COUNTING BY 2'S WHAT COMES AFTER:

6 ____	20 ____	8 ____	24 ____
32 ____	44 ____	38 ____	50 ____
86 ____	58 ____	62 ____	92 ____
78 ____	4 ____	10 ____	14 ____
28 ____	54 ____	68 ____	98 ____

WHEN COUNTING BY 3'S WHAT COMES AFTER:

3 ____	9 ____	6 ____	12 ____
18 ____	15 ____	21 ____	27 ____
33 ____	39 ____	45 ____	53 ____
60 ____	66 ____	72 ____	78 ____
81 ____	87 ____	93 ____	99 ____

TRANSPARENCY 11 Lesson 21



WHEN COUNTING BY TENS WHAT COMES AFTER:

1. 20 _____ 2. 40 _____ 3. 60 _____

4. 80 _____ 5. 30 _____ 6. 50 _____

7. 70 _____ 8. 10 _____ 9. 90 _____

WHEN COUNTING BY TENS WHAT COMES BEFORE:

1. _____ 20 2. _____ 30 3. _____ 10

4. _____ 40 5. _____ 80 6. _____ 60

7. _____ 70 8. _____ 50 9. _____ 90

WHEN COUNTING BY TENS WHAT COMES BETWEEN:

1. 10 _____ 30 2. 20 _____ 40 3. 30 _____ 50

4. 40 _____ 60 5. 70 _____ 90 6. 80 _____ 100

1. Sally had 7¢. She wants to buy milk. It will cost 10¢. How many more cents does Sally need?

2. Here are 7 valentines. Five children wanted valentines. How many valentines are left?

3. Here are 5 cents and here are 3 cents. Put them in your pocket. How many cents are in your pocket?

4. Jenny had 6 pennies. She found 4 pennies. How many pennies does Jenny have?

5. What is the sum of 9 and 2?

6. Find the difference between 11 and 4.

7. Ben had a dime. He spent 5¢ on gum. How much money did he have left?

8. Mr. Brown had 10 dollars. He spend 8 dollars. How many dollars did he have left?

SECTION IV:

SUPPLEMENTARY GAMES, WORKSHEETS / TRANSPARENCIES

AROUND THE WORLD

All the students are seated in a semicircle. One child is "It". That child stands behind the chair of the first child. Teacher orally reads the problems. If the child behind the chair says the answer first, he wins and moves on around the circle. If the seated child says the answer first, he exchanges places with the child behind him and becomes "It".

* May be used with lessons 1, 2, 3, 4, 5.

KING OF THE MOUNTAIN

One child stands on a chair and is King of the Mountain. The other students sit on chairs in a semicircle. Each child takes a turn as King. The teacher reads the problem. If the King gives the correct answer first, he stays on the mountain. If another child gives the correct response first, the King gives up his place and takes the place of the child in the semicircle.

* May be used with lessons 1, 2, 3, 4, 5.

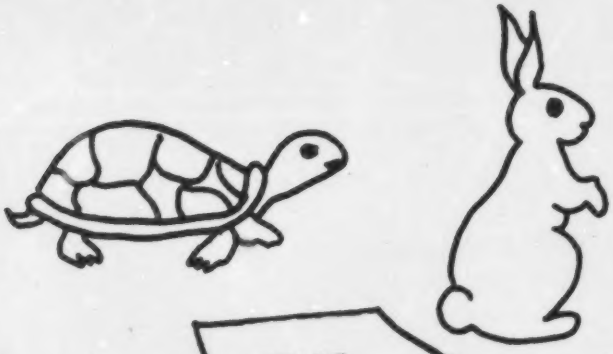
MIDGET STEP - MAY I

Teacher reads the question. If student gives the correct response, he says "May I?" and the teacher gives permission to take a midget step forward. If the student gives the wrong response, the teacher corrects the response and the child takes a midget step backwards. The child who gets to the goal first wins.

* May be used with lessons 1, 2, 3, 4, 5.

RACE TO THE PARK

Read the problem on the card.
What is the correct answer?
Move that number of spaces.
Follow direction- on spaces.



START

GO BACK
2 SPACES

LOSE 1
TURN

RETURN TO
TREE

GO
FORWARD
1 SPACE

MOVE TO
FLOWER

LOSE 1
TURN

GO BACK
TO CARROT

GO FORWARD
1 SPACE

FINISH

7 SUBTRACT 2	7 SUBTRACT 6
7 SUBTRACT 3	7 SUBTRACT 7
7 SUBTRACT 4	7 SUBTRACT 1
7 SUBTRACT 5	7 SUBTRACT 0

8 SUBTRACT 1	8 SUBTRACT 5
8 SUBTRACT 2	8 SUBTRACT 6
8 SUBTRACT 3	8 SUBTRACT 7
8 SUBTRACT 4	8 SUBTRACT 8

Make a master of fish.

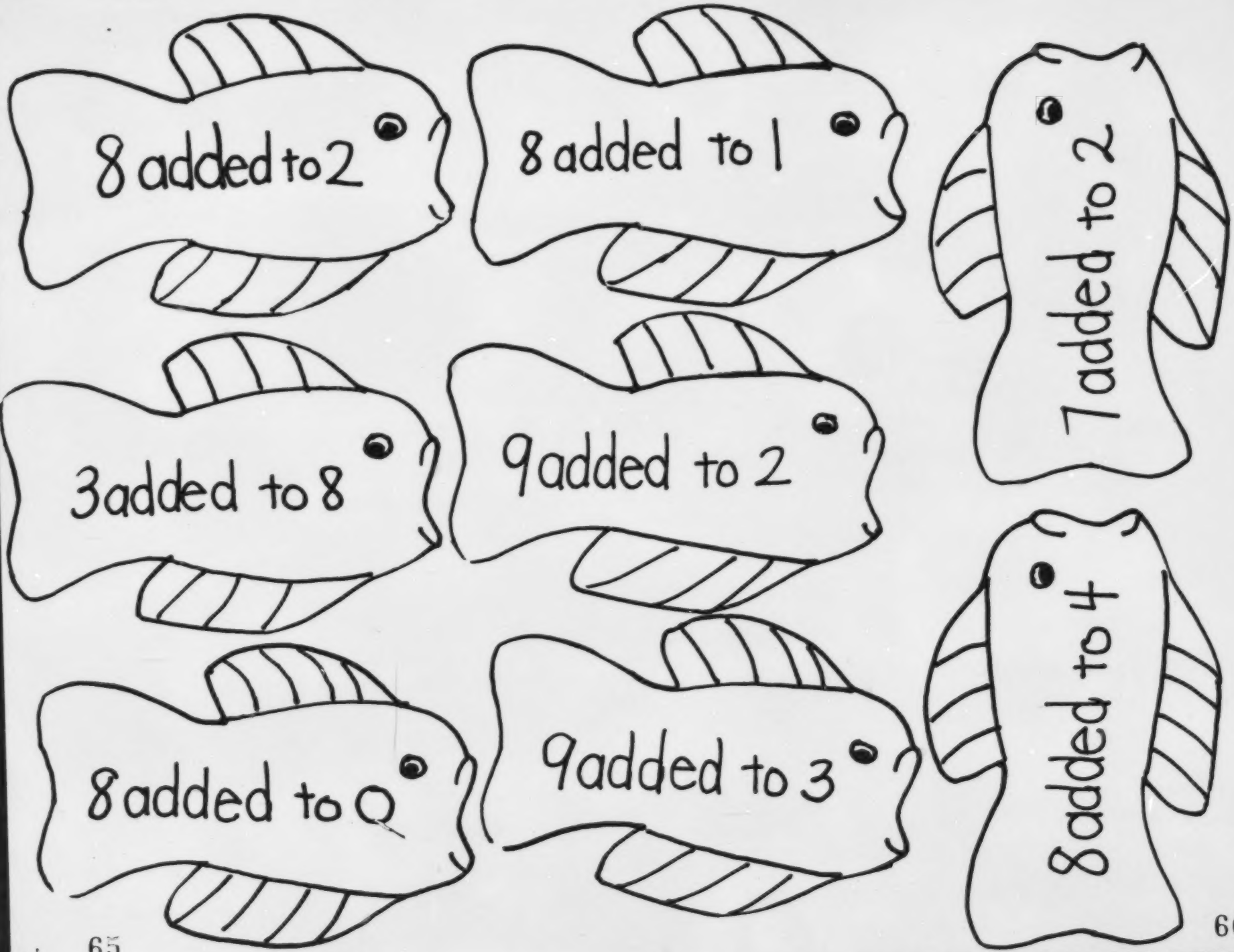
Run fish on card board.

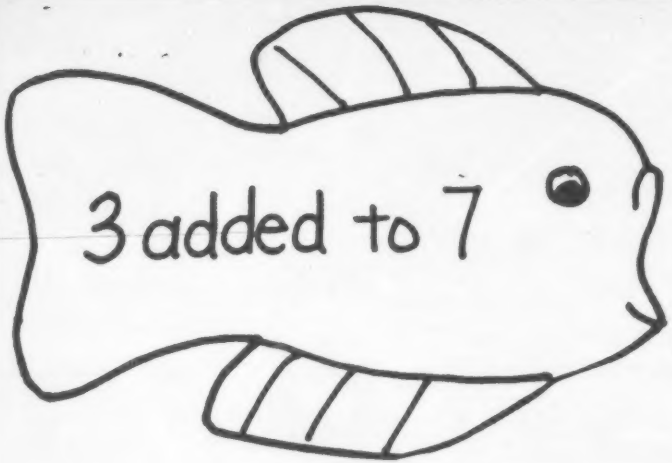
Cut out fish and clip a paper clip to the fish nose.

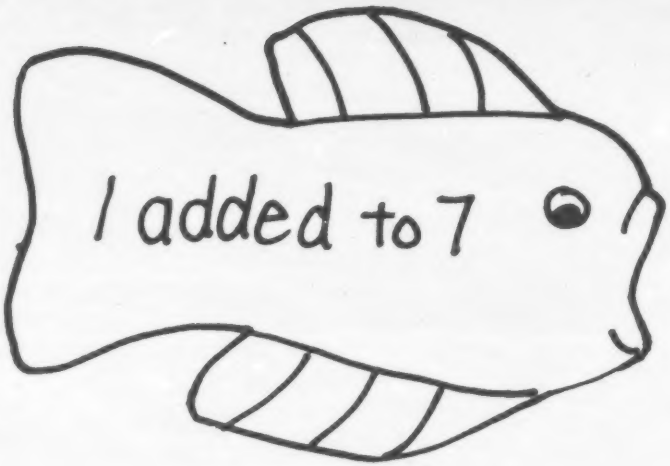
Make a fishing pole.

At the end of the pole attach nylon cord and fasten a magnet on cord.

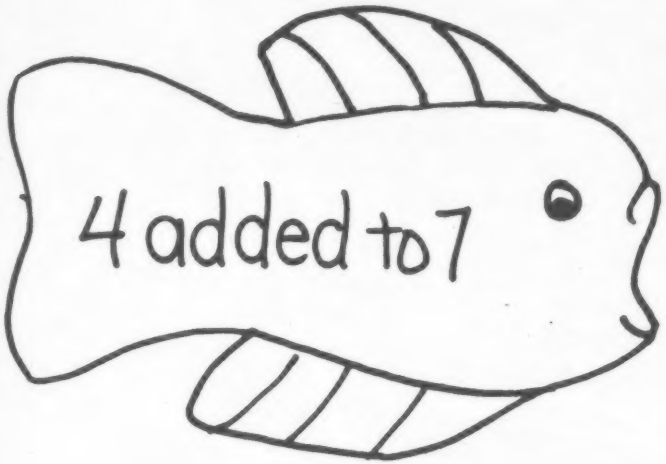
Child picks up fish with fishing pole. To keep fish he must give the right answer.

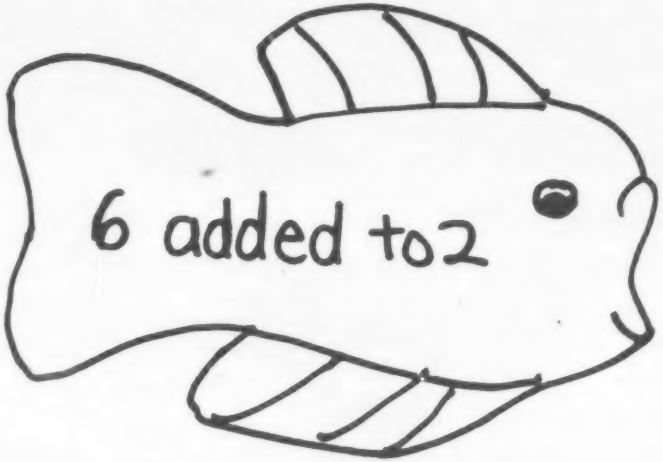

8 added to 2
8 added to 1
7 added to 2
3 added to 8
9 added to 2
8 added to 4
8 added to 0
9 added to 3


3 added to 7


1 added to 7

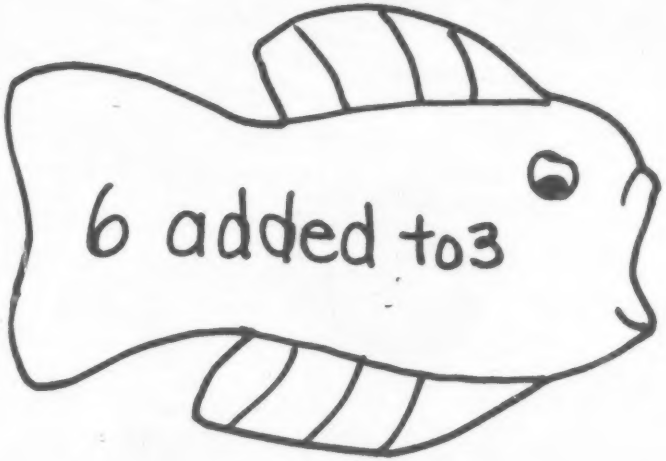
6 added to 4


4 added to 7


6 added to 2

6 added to 5

5 added to 7


6 added to 3

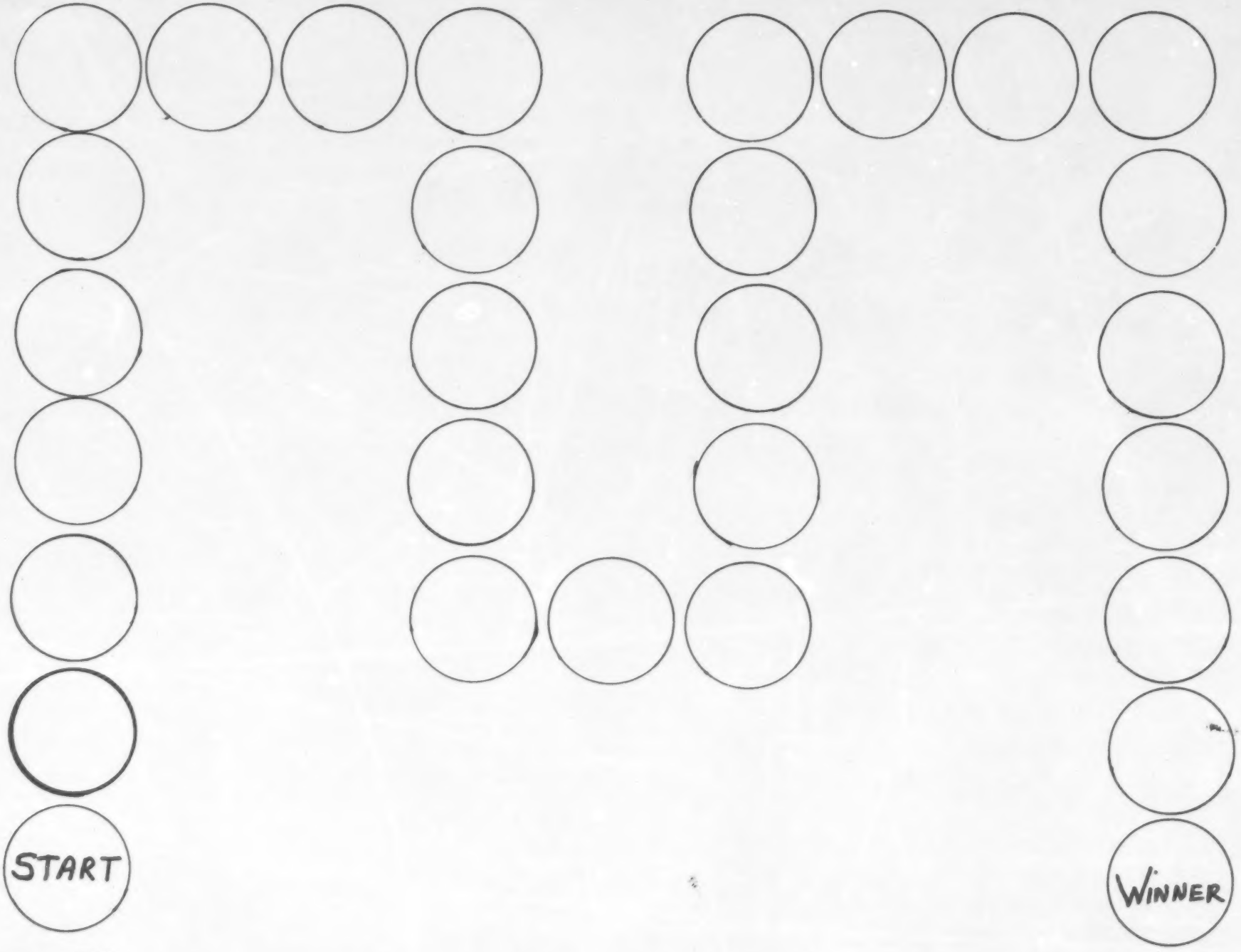
Make game board with round gummed medium circles.

Use two markers (squares, cars, etc.)

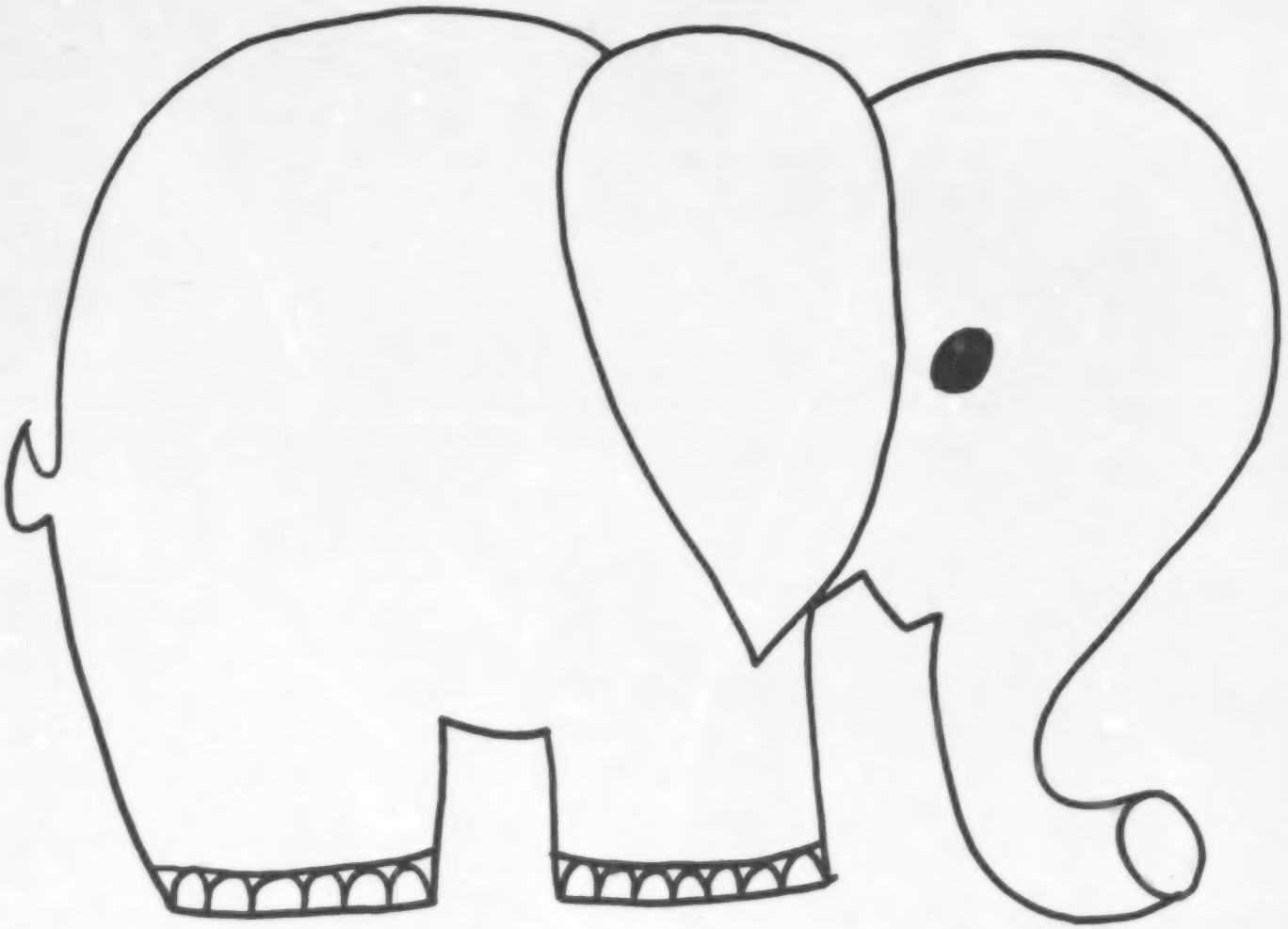
Move one space for each correct answer.

3 ADDED TO 1	3 ADDED TO 5
3 ADDED TO 2	3 ADDED TO 6
3 ADDED TO 3	3 ADDED TO 7
3 ADDED TO 4	3 ADDED TO 8

2 ADDED TO 4	2 ADDED TO 8
2 ADDED TO 6	2 ADDED TO 9
2 ADDED TO 5	2 ADDED TO 3
2 ADDED TO 7	2 ADDED TO 2


START
WINNER

7 PLUS 3	5 PLUS 3
9 PLUS 3	4 PLUS 3
8 PLUS 3	3 PLUS 3
6 PLUS 3	2 PLUS 3

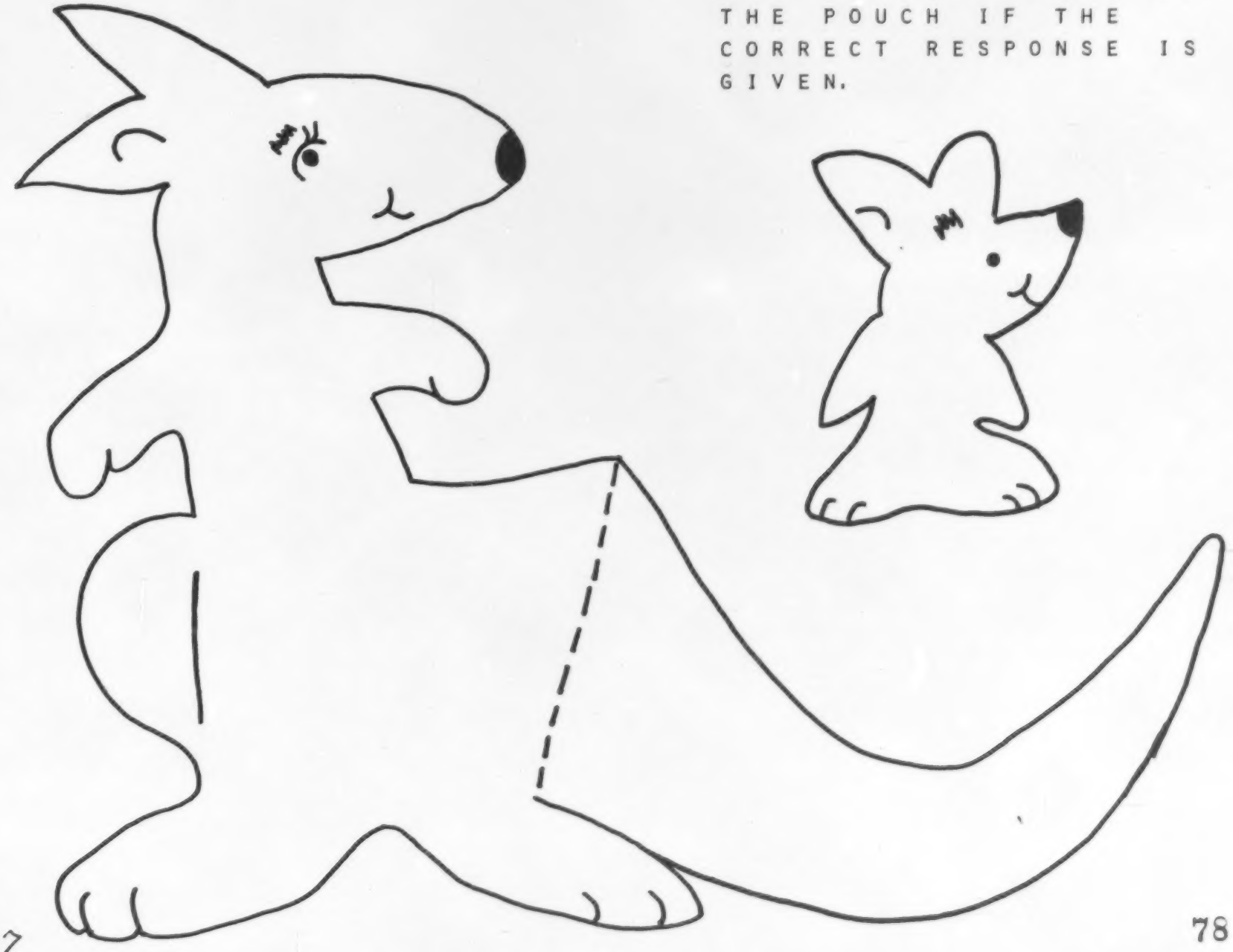


IF A CORRECT RESPONSE, FEED HAY TO THE ELEPHANT.

3 ADDED TO 7

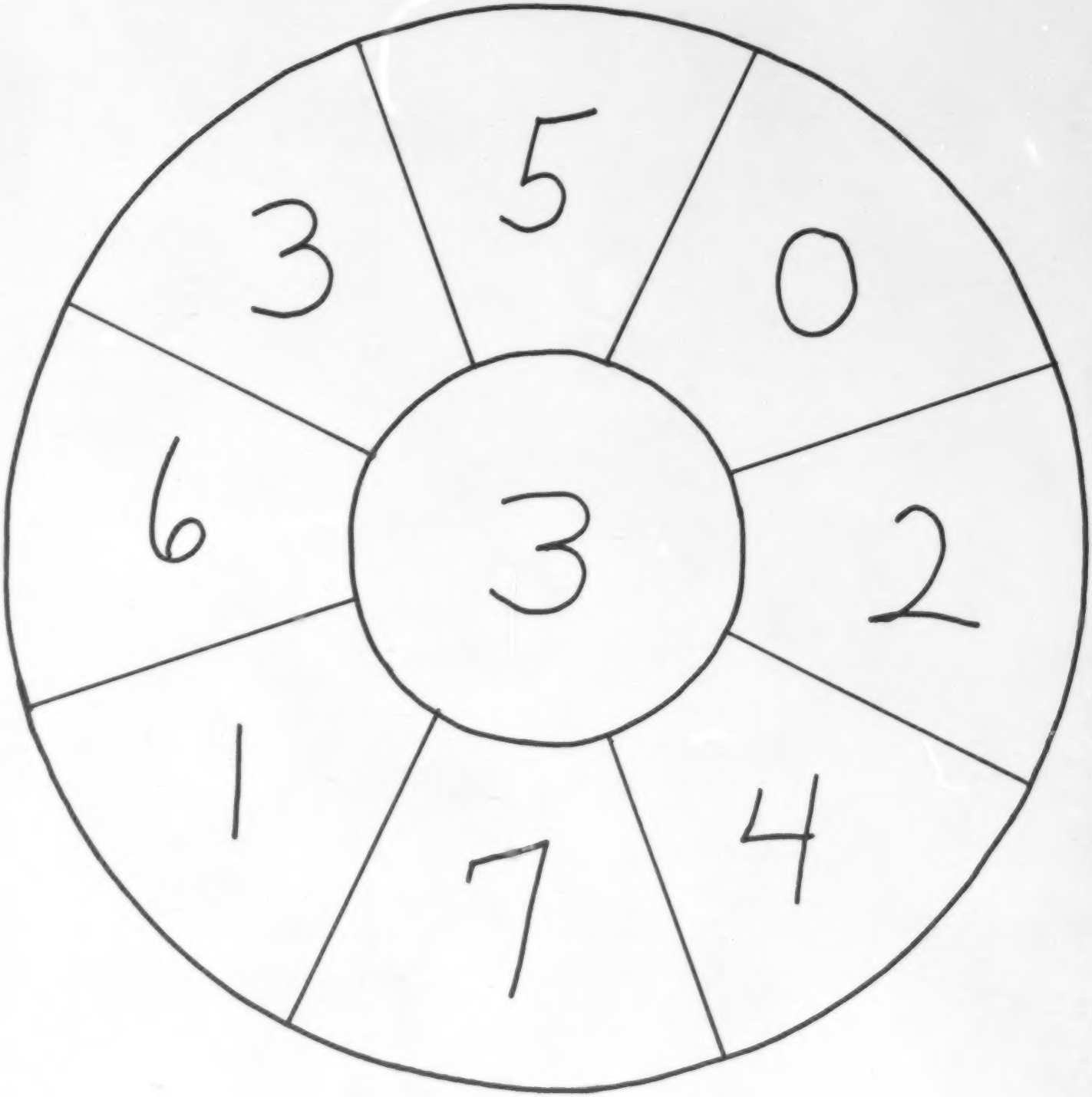
IF A CORRECT RESPONSE, FEED DOG THE BONE.

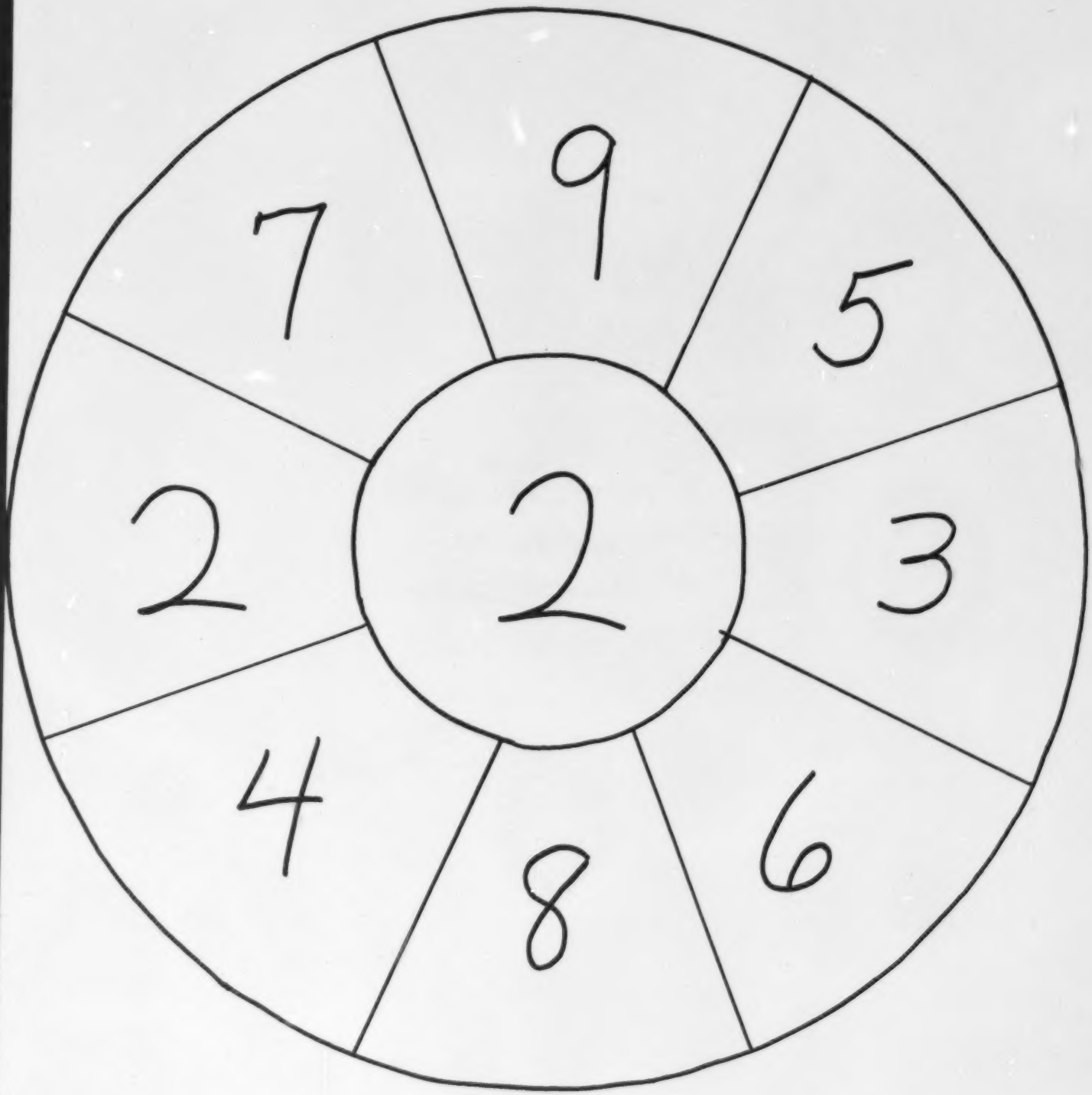
PUT THE KANGAROO IN THE POUCH IF THE CORRECT RESPONSE IS GIVEN.



FIND THE SUM

MAKE OUT OF CARDBOARD. TAPE ON BOARD. WRITE ANSWER AT EDGE.





FIND THE DIFFERENCE

MAKE OUT OF CARDBOARD. TAPE ON BOARD. WRITE ANSWER AT EDGE.

FIND THE DIFFERENCE

1. 9 TURTLES
   5 TURTLES

   TURTLES

2. 12 DOLLS
   9 DOLLS

   DOLLS

3. 10 BEES
   7 BEES

   BEES

4. 8 DOGS
   3 DOGS

   DOGS

5. 11 ELEPHANTS
   4 ELEPHANTS

   ELEPHANTS

6. 7 BOOKS
   3 BOOKS

   BOOKS

7. 6 GOATS
   4 GOATS

   GOATS

8. 10 CATS
   6 CATS

   CATS

9. 9 TABLES
   3 TABLES

   TABLES

10. 8 BEDS
    4 BEDS

    BEDS

11. 7 PANS
    5 PANS

    PANS

12. 8 CHAIRS
    2 CHAIRS

    CHAIRS

NAME_____

1. Nan had 5¢. She wanted to buy a pencil for 10¢. How many more cents does Nan need?

_____

2. Bill had 6¢. He wanted to buy a book for 12¢. How many more cents does Bill need?

_____

3. Tom had 9¢. He wanted to buy a candy bar for 10¢. How many more cents does Tom need?

_____

4. Kim had 4¢. She wanted to buy a pad for 10¢. How many more cents does Kim need?

_____

5. Jill had 3¢. She wanted to buy a card for 10¢. How many more cents does Jill need?

_____

6. Kathy had 7¢. She wanted to buy a stamp for 12¢. How many more cents does Kathy need?

_____

NAME_____

1. Jenny had nine apples. Jeff had three apples. How many more apples did Jenny have?

_____

2. Kim had nine books. Julie had four books. Kim had how many more books than Julie?

_____

3. Kathy had nine cars. James had two cars. Kathy had how many more cars than James?

_____

4. Tom had nine pieces of the puzzle. Jill had five pieces of the puzzle. Tom had how many more pieces than Jill?

_____

5. Jill had nine toy cows. Ben had one toy cow. How many more toy cows did Jill have?

_____

6. Matthew had nine rabbits. Nan had six rabbits. How many more rabbits did Nan have?

_____

NAME_____

1. Jill had 8 cats. Will had 2 cats. Find the sum.

_____

2. There are 3 big seals. There are 8 little seals. Find the sum.

_____

3. Nan had 1 red car. Ted had 8 blue cars. Find the sum.

_____

4. Bill has 7 turtles. Jill had 3 turtles. Find the sum.

_____

5. Jill caught 7 fish. Ben caught 2 fish. Find the sum.

_____

6. Susan had 7 toy elephants. Tom had 1 toy elephant. Find the sum.

_____

7. Ben had 4 airplanes. Betty had 7 airplanes. Find the sum.

_____

NAME_____

1. Jane had 7 jumping ropes. Bill had 4 jumping ropes. Find the total.

_____

2. Susan had 8 green frogs. Sally had 4 green frogs. Find the total.

_____

3. Ben had 6 worms. Jill had 4 worms. Find the total.

_____

4. Julie had 3 books. Tom had 2 books. Mark had 1 book. Find the total.

_____

5. Ben had 8 hooks. Sid had 3 hooks. Find the total.

_____

6. Jim had 9 sticks. Chris had 3 sticks. Find the total.

_____

7. Jen had 5 kites. Susan had 1 kite. Thad had 2 kites. Find the total.

_____

NAME _____

IF YOU WERE COUNTING BY 2'S, WHAT NUMBER WOULD COME AFTER:

8 XX _____	20 XX _____	2 XX _____
12 XX _____	6 XX _____	14 XX _____
22 XX _____	28 XX _____	24 XX _____
4 XX _____	32 XX _____	30 XX _____
10 XX _____	18 XX _____	36 XX _____
16 XX _____	26 XX _____	40 XX _____
28 XX _____	32 XX _____	44 XX _____
34 XX _____	38 XX _____	48 XX _____
42 XX _____	46 XX _____	52 XX _____
50 XX _____	54 XX _____	58 XX _____
56 XX _____	60 XX _____	64 XX _____

NAME_____

IF YOU WERE COUNTING BY 5's, WHAT NUMBER WOULD COME AFTER:

20 XXXXX _____

25 XXXXX _____

65 XXXXX _____

35 XXXXX _____

90 XXXXX _____

40 XXXXX _____

60 XXXXX _____

85 XXXXX _____

15 XXXXX _____

55 XXXXX _____

30 XXXXX _____

45 XXXXX _____

80 XXXXX _____

75 XXXXX _____

10 XXXXX _____

50 XXXXX _____

70 XXXXX _____

95 XXXXX _____

5 XXXXX _____

NAME_____

1. 2 balls
6 balls
How many balls in all?

_____

2. 3 turtles
4 turtles
How many turtles in all?

_____

3. 5 rabbits
2 rabbits
How many rabbits in all?

_____

4. 4 cats
3 cats
How many cats in all?

_____

5. 5 books
5 books
How many books in all?

_____

6. 5 bikes
3 bikes
How many bikes in all?

_____

7. 4 pipes
4 pipes
How many pipes in all?

_____

8. 5 tires
4 tires
How many tires in all?

_____

9. 6 animals
4 animals
How many animals in all?

_____

10. 3 foxes
7 foxes
How many foxes in all?

_____

NAME_____

Name_____

1. Here are 4 rabbits. 2 rabbits went away. How many rabbits are left?

_____

2. Here are 5 foxes. 3 foxes went away. How many foxes are left?

_____

3. Here are 6 turtles. 2 turtles went away. How many turtles are left?

_____

4. Here are 7 balls. Bill took 5 balls. How many balls are left?

_____

5. Here are 8 gingerbread boys. Jill ate 2 gingerbread boys. How many gingerbread boys are left?

_____

6. Here are 6 turtles. 5 turtles swim away. How many turtles are left.

_____

7. Here are 5 seals. 2 seals swim away. How many seals are left?

_____

8. Here are 9 goats. 5 goats ran away. How many goats are left?

_____